

IT \*\*\*Polyoxyalkylenes\*\*\* , biological studies  
(non-gelatin substitutes for oral delivery capsules)  
IT \*\*\*Gels\*\*\*  
( \*\*\*thermoreversible\*\*\* ; non-gelatin substitutes for oral  
delivery capsules)

(3)  
L71 ANSWER 4 OF 68 HCA COPYRIGHT 2001 ACS

AN 133:310294 HCA

TI Thermally reversible hydrophilic-hydrophobic copolymers and  
production method thereof

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PA Agency for Industrial Science and Technology, Japan

SO Jpn. Tokkyo Koho, 10 pp.

CODEN: JTXXFF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 3101714	B1	20001023	JP 1999-130577	19990511
	JP 2000319304	A2	20001121		
	JP 2001049074	A2	20010220	JP 2000-183492	19990511
PRAI	JP 1999-130577	A3	19990511		

AB Title copolymers comprise (A) structure units derived from at least  
one monomer selected from N-n-propylacrylamide, N-isopropylamide,  
and N,N-diethylacrylamide and (B) 0.001-10 mol% structure units  
derived from reactive surfactants represented by  
R-p-C6H4-OCH2CH(CH2OCH2CH:CH2)(OX)nSO3M,  
CH2:CHCH2OOCCH(CH2COOR)SO3M, or CH2:C(R')COO(XO)nSO3M and having  
mass av. mol. wt. 1,000,000-10,000,000, where R = higher alkyl, R'  
= H or Me, X = alkylene, M = alkali metal or ammonium, and n =  
integer of 2-20. Thus, 9.08 g N-isopropylacrylamide and 0.78 g  
Adeka Reasoap SE 10N (reactive surfactant) were \*\*\*copolymd\*\*\*  
using 0.061 g ammonium persulfate at 60.degree. for 2 to give a  
polymer with mass av. mol. wt. 1,640,000 and reactive surfactant  
content 1.11%. A 5% aq. soln. of the resulting polymer showed  
syneresis rate 86% after kept at 50.degree. for 2.5 h.

IT \*\*\*Polyoxyalkylenes\*\*\* , preparation  
(acrylic, graft; prepn. of thermally reversible  
hydrophilic-hydrophobic copolymers useful as syneresis agents)

IT \*\*\*Gelation\*\*\*  
( \*\*\*thermally\*\*\* \*\*\*reversible\*\*\* ; prepn. of  
\*\*\*thermally\*\*\* \*\*\*reversible\*\*\* hydrophilic-hydrophobic  
copolymers useful as syneresis agents)

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AN 133:89859 HCA

TI Controlled preparation of nanometer-sized supramolecular cylinders  
of poly(ethylene oxide) embedded in methacrylate matrices

AU Beginn, Uwe; Fischer, Elmar; Pieper, Thomas; Mellinger, Felix;  
Kimmich, Rainer; Moller, Martin

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SO J. Polym. Sci., Part A: Polym. Chem. (2000), 38(11), 2041-2056  
CODEN: JPACEC; ISSN: 0887-624X

PB John Wiley & Sons, Inc.

DT Journal

LA English

AB Semi-interpenetrating networks of poly(ethylene oxide) (PEO) and  
highly \*\*\*crosslinked\*\*\* poly(methacrylate)s were generated

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